

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,755	07/15/2003	Ragulan Sinnarajah	030275	8985
23696 OUALCOMM	7590 05/23/2007 INCORPORATED		EXAMINER	
5775 MOREHOUSE DR.			MEHRPOUR, NAGHMEH	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			05/23/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com kascanla@qualcomm.com nanm@qualcomm.com

	Application No.	Applicant(s)
	10/620,755	SINNARAJAH ET AL.
Office Action Summary	Examiner	Art Unit
	Naghmeh Mehrpour	2617
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MAILING THE MAIL	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS , cause the application to become ABAN	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on 12 Fe 2a) ■ This action is FINAL. 2b) ■ This 3) ■ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters	• •
Disposition of Claims		•
 4) Claim(s) 1-72 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-72 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and accomposite accomposite and accomposite and accomposite accomposite and accomposite and accomposite accomposite accomposite and accomposite accomposite accomposite and accomposite a	epted or b) objected to by drawing(s) be held in abeyance tion is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		·
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in App rity documents have been re- u (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		mary (PTO-413) lail Date mal Patent Application
Paper No(s)/Mail Date	6) Other:	. Contrappioation

Art Unit: 2617

DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 8, 11-12, 16, 19-20, 26, 33, 38, 44, 47-48, 52, 55-57, 65-66, 67, 70, are rejected under 35 U.S.C. 102(e) as being anticipated by Kinnavy (US patent Number 7,047,005).

Regarding claims 1, 11, 19, 37, 47, 55, 65, Kinnavy teaches method for providing short-slot-cycle paging information to a base station (BS)(col 6 lines 17-28), comprising:

a receiver capable of receiving information from a communication device (CD) (col 2 lines 55-66, see figure 3);

a transmitter capable of transmitting information to the CD (col 2 lines 55-56, see figure 3); and

Art Unit: 2617

a processor 344 capable of carrying out a method for providing short-slot-cycle paging (col 2 lines 5-30, see figure 3), the method comprising:

indicating to the CD that the BS is capable of short-slot-cycle paging (col 2 lines 5-30);

receiving information from the CD, indicating that the CD is also capable for short-slot-cycle paging (col 2 lines 5-30, see figure 3); and

paging the CD based on the received information (see figure 3, col 2 lines 55-67, col 3 lines 1-3).

Regarding claims 2, 12, 20, 33, 38, 48, 56, 66, Kinnavy inherently teaches a method of claim 1, further including setting a negative slot-cycle-index value for said short-slot-cycle paging (col 3 lines 3-35).

Regarding claims 3, 21, 31, 39, 49, 57, 67, Kinnavy inherently teaches a wherein the negative slot-cycle-index value includes one of "-1," "-2," "-3," or "-4" (col 4 lines 39-67).

Regarding claims 8, 16, 26, 34, 44, 52, 62, 70, Kinnavy inherently teaches a method of claim 7, further including setting a desired slot cycle duration in a SLOT-CYCLE-INDEX field (col 2 lines 5-30, col 4 lines 5-39).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 6, 9-10, 17-18, 24, 27-28, 35-36, 45-46, 53-54, 63-64, 71-72, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinnavy (US patent Number 7,047,005).

Regarding claims 6, 24, 42, 60, Kinnavy does not specifically mention a method of claim 1, wherein said determining includes examining whether AUTO_MSG_SUPPORTED field is set to "1". However the Examiner takes official notice that designing different field and setting different number is a programmer choice. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of with Kinnavy, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Regarding claims 7, 15, 25, 33, 43, 51, 61, 69, Kinnavy does not specifically mention that a method of claim 1, wherein said indicating includes setting WLL_INCL to "1" in one of registration message, origination message, or page response message.

However the Examiner takes official notice that designing different field and setting

Art Unit: 2617

different number is a programmer choice. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of with Kinnavy, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Regarding claims 9, 17, 27, 35, 45, 53, 63, 71, Kinnavy does not specifically mention a method of claim 7, further including setting a desired slot cycle duration in a WLL-DEVICE-TYPE field (col 7 lines 1-60). However the Examiner takes official notice that designing different field and setting different number is a programmer choice. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of with Kinnavy, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Regarding claims 10, 18, 28, 36, 46, 54, 64, 72, Kinnavy does not specifically mention that a method of claim 1, wherein said indicating includes setting a SLOT-CYCLE-INDEX with a most significant bit of "1" in one of registration message, origination message, or page response message (col 7 lines 1-59). However the Examiner takes official notice that designing different field and setting different number is a programmer choice. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of with Kinnavy, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Art Unit: 2617

4. Claims 4-5, 13-14, 22-23, 31-32, 40-41, 58-59, 68, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinnavy (US patent Number 7,047,005) in view of Zhang et al. (US Publication 2004/0179492 A1).

Regarding claims 4, 13, 22, 31, 40, 50, 58, Kinnavy fails to teach a method of claim 1, wherein said determining includes examining system parameter messages including extended system parameter messages (ESPM). However, Zhang teaches determining includes examining system parameter messages including extended system parameter messages (ESPM) (0314). Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of Zhang with Zhang, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Regarding claims 5, 14, 23, 32, 41, 59, 68, Kinnavy fails to teach a method of claim 1, wherein said determining includes examining system parameter messages including ANSI-41 system parameter messages (A41SPM). However, Zhang a method of claim 1, wherein said determining includes examining system parameter messages including ANSI-41 system parameter messages (A41SPM) (0320). Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of Zhang with Zhang, in order to provide reduction of over head and caused by location update and to enable efficient paging. Kinnavy modified by Zhang does not specifically mention a method of claim 1, wherein said determining includes

examining whether AUTO_MSG_SUPPORTED field is set to "1". However the Examiner takes official notice that designing different field and setting different number is a programmer choice. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of with Kinnavy modified by Zhang, in order to provide reduction of over head and caused by location update and to enable efficient paging.

Response to Arguments

5. Applicant's arguments with respect to claims 1-72 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any responses to this action should be mailed to:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold be reached (571) 272-7905.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NM

May 15, 2007

PRIMARY EXAMINER